Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

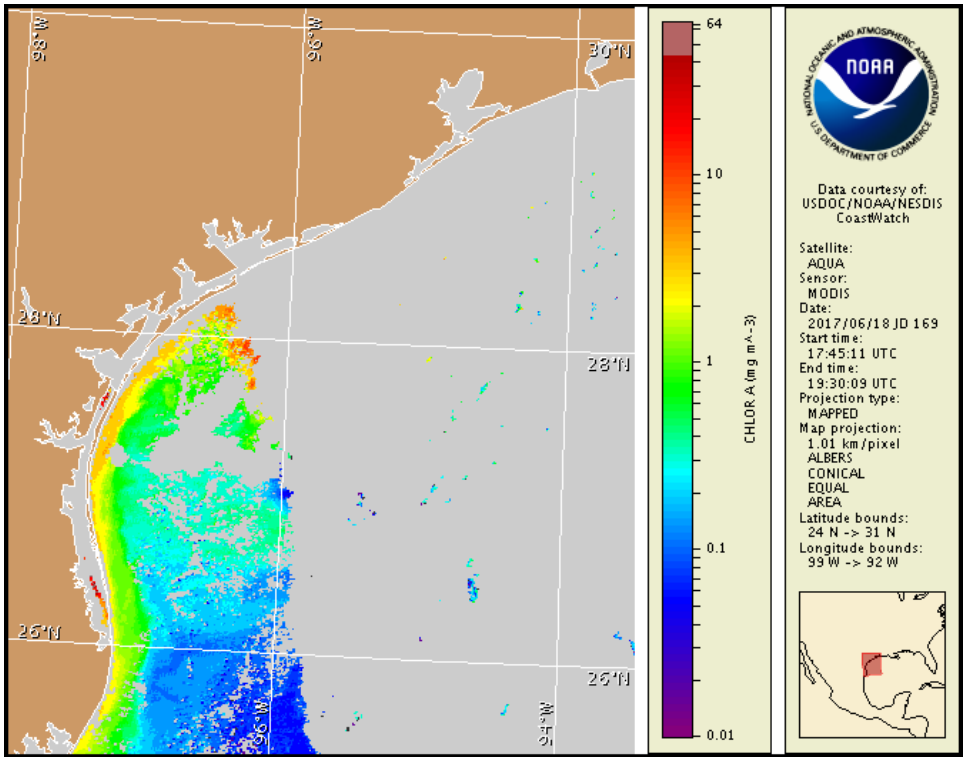
Monday, 19 June 2017

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, June 12, 2017



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from June 9 to 16: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

https://tidesandcurrents.noaa.gov/hab/hab_publication/GOMX_HAB_Bulletin_Guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

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To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the Gulf of Mexico HAB:

https://tidesandcurrents.noaa.gov/hab/gomx.html

Conditions Report

Karenia brevis (commonly known as Texas red tide) ranges from not present to background concentrations along the coast of Texas. No respiratory irritation is expected Monday, June 19 through Monday, June 26.

Check https://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations.

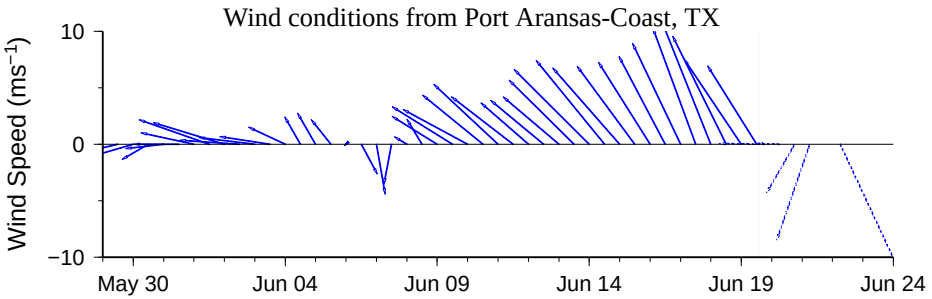
Analysis

Sampling from Texas A&M University's Imaging FlowCytobot (IFCB), located on the Port Aransas ship channel, indicates that *Karenia brevis* concentrations range between 'not present' and 'background' (TAMU; 6/12-6/19). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua ensemble imagery (6/18; shown left) is partially obscured by clouds north of Matagorda Island, limiting analysis. From the Corpus Christi south to the Rio Grande, recent imagery does not indicate the presence of chlorophyll anomalies with the optical characteristics of *K. brevis*.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 20km south from the Port Aransas region from June 18 to 22.

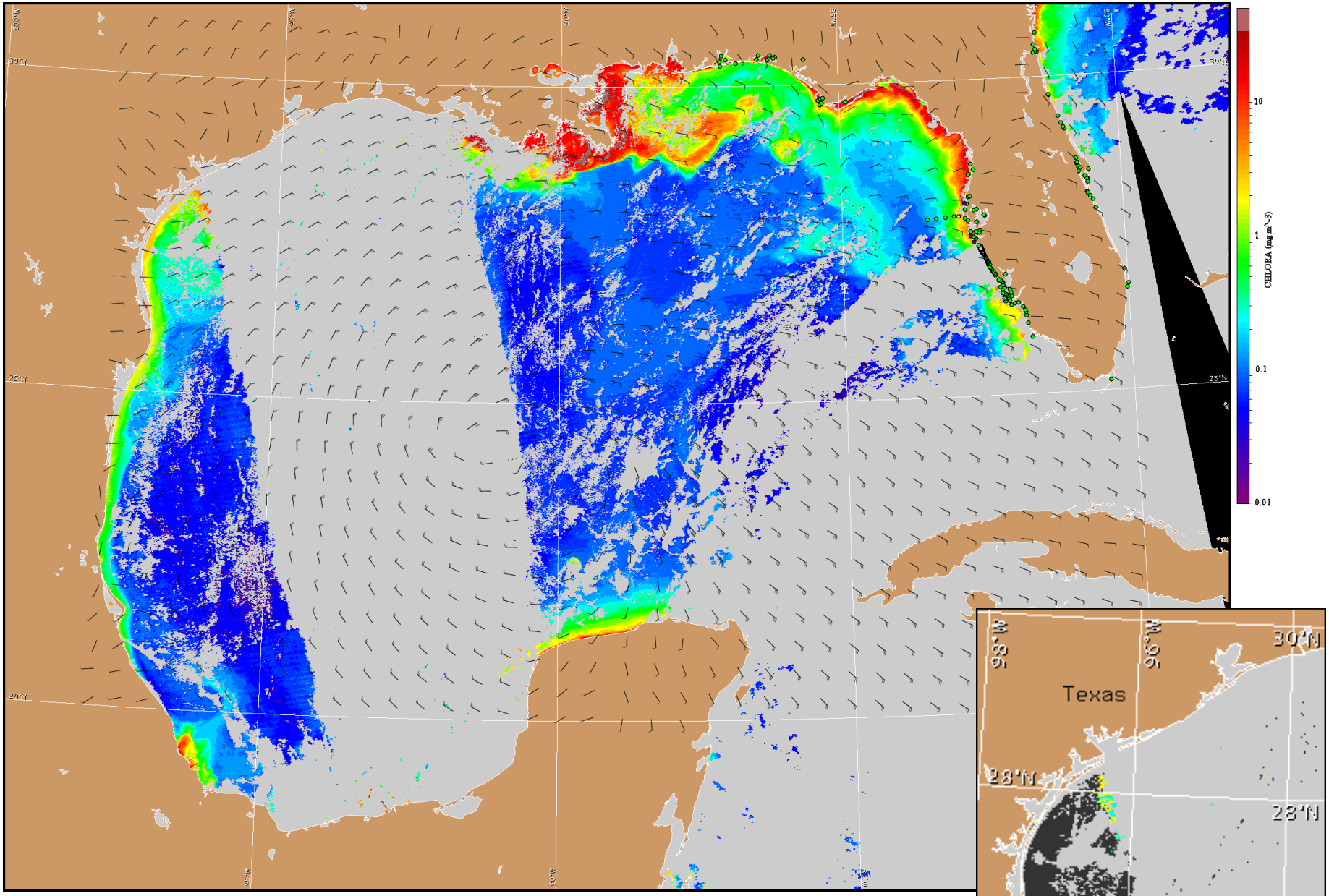
Keeney, Davis



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

Port Aransas to Matagorda Ship Channel: Southeast winds (5-10kn, 3-5m/s) today. North to northeast winds (10-20kn, 5-10m/s) Tuesday and Wednesday. East to northeast winds (10-15kn, 5-8m/s) late Wednesday into Thursday morning. Southeast to south winds (10-15kn) Thursday night and Friday.



Satellite chlorophyll image and forecast winds for June 20, 2017 06Z with points representing cell concentration sampling data from June 9 to 16: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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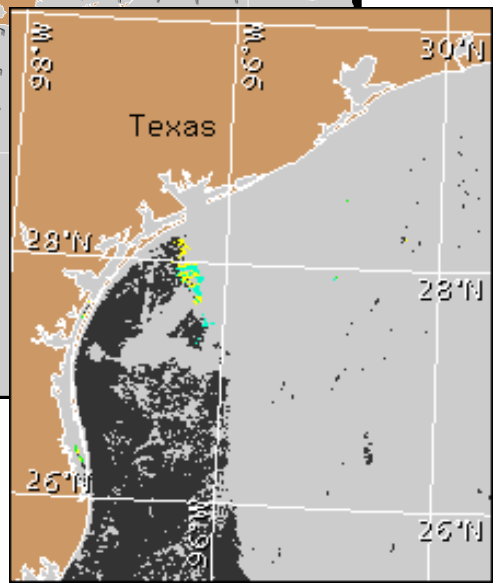

Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).